# **SP-H** series

## Size SP-H 0555





The mounting structure must support the housing to at least ø555.

The seal must be supported by the mounting structure to at least ø714, in order to ensure the full sealing effect. A recess in the mounting structure of 10 mm above the housing is recommended.

Drawing	number SP		2-0391
Module	m	[mm]	8
Number of teeth, wheel	z <sub>2</sub>	[-]	85
Number of teeth, pinion	z <sub>1</sub>	[-]	15
Slew drive gear ratio	i	[-]	5.67
Overall gear ratio incl. gear box	i <sub>tot</sub>	[-]	102.56
Max. torque	M <sub>d max</sub>	[Nm]	32670
Nom. torque $S_F = 1$ at $n = 3 \text{ min}^{-1}$	M <sub>d nom</sub>	[Nm]	21590
Max. holding torque*	M <sub>h max</sub>	[Nm]	32670
Static load rating, radial	C <sub>o rad</sub>	[kN]	673
Static load rating, axial	C <sub>o ax</sub>	[kN]	1802
Dynamic load rating, radial	C <sub>rad</sub>	[kN]	301
Dynamic load rating, axial	Cax	[kN]	351
Weight, incl. 11 kg for hydraulic mo	tor RE160	[kg]	226
* Optionally with brake			
he hydraulic/electric motor is select ctual requirements and customer sp election example: erformance data with hydraulic mo	ed according pecification. tor RE160	g to the	
Pressure differential	∆p	[bar]	165
Oil flow	Q	[l/min]	53
Output speed	n	[min -1]	3



Mounting holes

Y = 20 drill holes M20-40 deep, evenly distributed Z = 20 drill holes ø22, evenly distributed

### Lubricating ports

4 conical grease nipples on internal diameter 2 conical grease nipples on housing exterior Slew drive supplied pre-lubricated









The mounting structure must support the housing to at least ø655.

The seal must be supported by the mounting structure to at least ø818, in order to ensure the full sealing effect. A recess in the mounting structure of 10 mm above the housing is recommended.

Dra	awing number SF	-Н 0655/	2-05912
Module	m	[mm]	8
Number of teeth, wheel	z <sub>2</sub>	[-]	98
Number of teeth, pinion	z <sub>1</sub>	[-]	15
Slew drive gear ratio	i	[-]	6.53
Overall gear ratio incl. gear b	OX İ <sub>tot</sub>	[-]	118.25
Max. torque	M <sub>d max</sub>	. [Nm]	37667
Nom. torque S <sub>F</sub> = 1 at n = 3 min-1	M <sub>d non</sub>	[Nm]	25048
Max. holding torque*	M <sub>h max</sub>	[Nm]	37667
Static load rating, radial	C <sub>o rad</sub>	[kN]	794
Static load rating, axial	C <sub>o ax</sub>	[kN]	2127
Dynamic load rating, radial	C <sub>rad</sub>	[kN]	319
Dynamic load rating, axial	Cax	[kN]	373
Weight, incl. 11 kg for hydra	ulic motor RE160	[kg]	246
* Optionally with brake			
he hydraulic/electric motor is ctual requirements and custo election example: erformance data with hydrau	selected accordin omer specification Ilic motor RE160	ig to the	
Pressure differential	∆р	[bar]	165
Oil flow	Q	[l/min]	60
Output speed	n	[min -1]	3
Max. achievable torque	Md	[Nm]	37667



Mounting holes

Y = 24 drill holes M20-40 deep, evenly distributed Z = 24 drill holes ø22, evenly distributed

#### Lubricating ports

4 conical grease nipples on internal diameter 2 conical grease nipples on housing exterior Slew drive supplied pre-lubricated

#### Limiting load diagram for compressive loads



IMC

# **SP-H** series

# Size SP-H 0755





The mounting structure must support the housing to at least ø755.

The seal must be supported by the mounting structure to at least ø914, in order to ensure the full sealing effect. A recess in the mounting structure of 10 mm above the housing is recommended.

Drawing	number SP-	H 0755/	2-05913
Module	m	[mm]	8
Number of teeth, wheel	z <sub>2</sub>	[-]	110
Number of teeth, pinion	<b>z</b> 1	[-]	15
Slew drive gear ratio	i	[-]	7.33
Overall gear ratio incl. gear box	i <sub>tot</sub>	[-]	132.73
Max. torque	M <sub>d max</sub>	[Nm]	42279
Nom. torque $S_{\rm F}=1$ at $n=3\ min^{-1}$	M <sub>d nom</sub>	[Nm]	28204
Max. holding torque*	M <sub>h max</sub>	[Nm]	42279
Static load rating, radial	C <sub>o rad</sub>	[kN]	916
Static load rating, axial	C <sub>o ax</sub>	[kN]	2452
Dynamic load rating, radial	Crad	[kN]	336
Dynamic load rating, axial	Cax	[kN]	393
Weight, incl. 11 kg for hydraulic motor RE160 [kg]			268
* Optionally with brake			
The hydraulic/electric motor is select actual requirements and customer s Selection example: Performance data with hydraulic mo	ted according pecification. otor RE160	g to the	
Pressure differential	Δp	[bar]	170
Oil flow	Q	[l/min]	67
Output speed	n	[min -1]	3
Max. achievable torque	M <sub>d</sub>	[Nm]	42279



Mounting holes Y = 24 drill holes M20-40 deep, evenly distributed Z = 24 drill holes ø22, evenly distributed

#### Lubricating ports

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4 conical grease nipples on internal diameter 2 conical grease nipples on housing exterior Slew drive supplied pre-lubricated





### Size SP-H 0855





The mounting structure must support the housing to at least ø855.

The seal must be supported by the mounting structure to at least ø1016, in order to ensure the full sealing effect. A recess in the mounting structure of 10 mm above the housing is recommended.

Dra	wing number SP-	H 0855/	2-05914
Module	m	[mm]	8
Number of teeth, wheel	z <sub>2</sub>	[-]	122
Number of teeth, pinion	z <sub>1</sub>	[-]	15
Slew drive gear ratio	i	[-]	8.13
Overall gear ratio incl. gear b	ox i <sub>tot</sub>	[-]	147.21
Max. torque	M <sub>d max</sub>	[-]	47180
Nom. torque $S_F = 1$ at $n = 3 \text{ min}^{-1}$	M <sub>d nom</sub>	[Nm]	32749
Max. holding torque*	M <sub>h max</sub>	[Nm]	47180
Static load rating, radial	C <sub>o rad</sub>	[Nm]	1037
Static load rating, axial	C <sub>o ax</sub>	[kN]	2777
Dynamic load rating, radial	Crad	[kN]	354
Dynamic load rating, axial	Cax	[kN]	414
Weight, incl. 11 kg for hydrau	ulic motor RE160	[kg]	289
* Optionally with brake			
he hydraulic/electric motor is ctual requirements and custo election example: erformance data with hydrau	selected according omer specification. Ilic motor RE160	) to the	
Pressure differential	Δp	[bar]	175
Oil flow	Q	[l/min]	74
Output speed	n	[min ·1]	3
Max, achievable torque	Ma	[Nm]	47180



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#### Mounting holes

Y = 28 drill holes M20-40 deep, evenly distributed Z = 28 drill holes ø22, evenly distributed

#### Lubricating ports

4 conical grease nipples on internal diameter 2 conical grease nipples on housing exterior Slew drive supplied pre-lubricated

## Limiting load diagram for compressive loads



# **SP-H** series



# Size SP-H 0955



The mounting structure must support the housing to at least ø955.

The seal must be supported by the mounting structure to at least ø1114, in order to ensure the full sealing effect. A recess in the mounting structure of 10 mm above the housing is recommended.

Drawing	g number SP-	H 0955/	2-05915	
Module	m	[mm]	8	
Number of teeth, wheel	z <sub>2</sub>	[-]	134	
Number of teeth, pinion	z <sub>1</sub>	[-]	15	
Slew drive gear ratio	i	[-]	8.93	
Overall gear ratio incl. gear box	i <sub>tot</sub>	[-]	161.69	
Max. torque	M <sub>d max</sub>	[Nm]	51888	
Nom. torque $S_F = 1$ at $n = 3 \text{ min}^{-1}$	M <sub>d nom</sub>	[Nm]	36342	
Max. holding torque*	M <sub>h max</sub>	[Nm]	51888	
Static load rating, radial	C <sub>o rad</sub>	[kN]	1159	
Static load rating, axial	C <sub>o ax</sub>	[kN]	3101	
Dynamic load rating, radial	Crad	[kN]	369	
Dynamic load rating, axial	Cax	[kN]	431	
Weight, incl. 10 kg for hydraulic motor OMS125 [kg]			315	
* Optionally with brake				
The hydraulic/electric motor is selected according to the actual requirements and customer specification. Selection example: Performance data with hydraulic motor OMS125				
Pressure differential	∆р	[bar]	200	
Oil flow	Q	[l/min]	65	
Output speed	n	[min ·1]	3	
Max. achievable torque	M <sub>d</sub>	[Nm]	51888	



 $\begin{array}{l} \mbox{Mounting holes} \\ Y=30 \mbox{ drill holes } M20{\text -}40 \mbox{ deep, evenly distributed} \\ Z=30 \mbox{ drill holes } \emptyset22, evenly \mbox{ distributed} \end{array}$ 

Lubricating ports

4 conical grease nipples on internal diameter 2 conical grease nipples on housing exterior Slew drive supplied pre-lubricated

# Limiting load diagram for compressive loads



## **Your notes**

